

## **TITLE of the INVENTION**

"Device and method for transforming a digital signal"

## **TEXT of the ABSTRACT**

The invention concerns the transformation of a digital signal in at least two different frequency bands according to at least two different resolutions. The method includes:

- dividing (E1, E18) the signal into first blocks ( $B_i$ ) all having a same predetermined first number of samples,
- transforming (E4) each of the first blocks into a plurality of second blocks,

any second block under consideration having a second respective number of samples which depends on the resolution of the second block under consideration, and containing samples selected according to their frequency,

- grouping (E10) second blocks issuing from the transformation of different first blocks in order to form third blocks all having a same predetermined third number of samples which is at least equal to the largest of the second numbers.

(Figure 12)

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